

IN THE CLAIMS:

Please rewrite the pending claims and add new claims as follows:

1-55. (Cancelled)

56. (Currently amended) A method for treating an artery or vein in a human subject, wherein said artery or vein is obstructed biological conduit or a conduit or susceptible to obstruction, selected from an artery or a vein, the method comprising

administering to the wall of the biological conduit artery or vein in the human subject an agent comprising a collagenase or an elastase that degrades extracellular matrix of the biological conduit,

wherein administration of the agent selected from the group consisting of one or more collagenases and one or more elastases results in proteolysis of elastin and/or elastin microfibrils in the wall of the biological conduit artery or vein leading to enlargement of the diameter of the lumen of the biological conduit artery or vein.

57. (Currently amended) The method of claim 56 wherein the agent comprises an elastase is administered.

58. (Currently amended) The method of claim 56 wherein the agent comprises a collagenase is administered.

59. (Currently amended) The method of claim 56 or 57, 58 or 61 wherein the agent is administered by a catheter.

60. (Currently amended) The method of claim 56 or 57, 58 or 61 wherein the method further comprises inserting a portion of the a delivery apparatus into the wall of the biological conduit artery or vein.

61. (New) The method of claim 56 wherein the agent comprises a collagenase and an elastase.

62. (New) The method of claim 57, 58 or 61 wherein the artery or vein is obstructed.

63. (New) The method of claim 62 wherein the obstruction of the artery or vein is a stenosis.

64. (New) The method of claim 62 wherein the artery or vein is connected to an arteriovenous hemodialysis graft.

65. (New) The method of claim 57, 58 or 61 wherein the subject is suffering from coronary obstruction.

66. (New) The method of claim 57, 58 or 61 wherein the artery or vein is obstructed by, or susceptible to obstruction by, intimal hyperplasia.

67. (New) The method of claim 57, 58 or 61 wherein the agent is administered to an isolated segment of the artery or vein.

68. (New) The method of claim 57, 58 or 61 wherein the agent is administered directly into a selected segment of the wall of the artery or vein.